High power CD player with RDS tuner

Reproductor de CD de alta potencia con sintonizador RDS

ENGLISH

Owner's Manual

DEH-2030R
DEH-2000R

Manual de Operación

Pioneer

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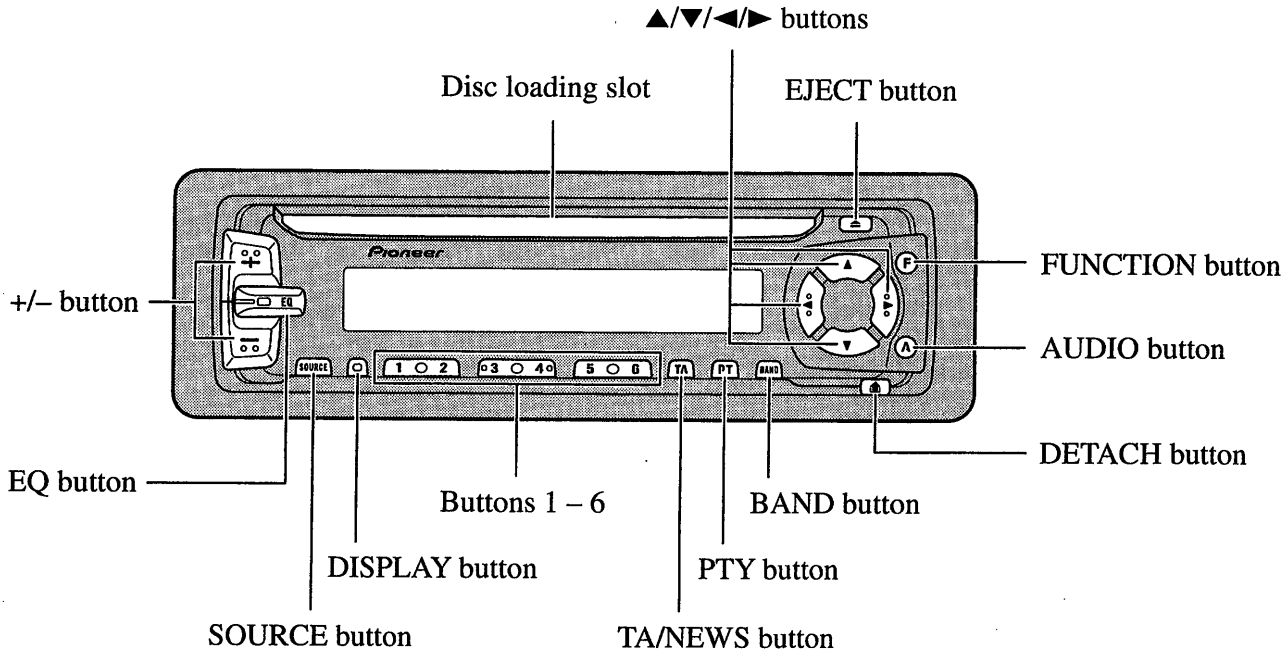
ENGLISH

Head Unit


▲/▼/◄/► buttons
Disc loading slot
EJECT button
FUNCTION button
+/– button
AUDIO button
DETACH button
EQ button
Buttons 1 – 6
BAND button
DISPLAY button
PTY button
SOURCE button
TA/NEWS button

Before Using This Product

About This Product

- This product complies with the EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC).

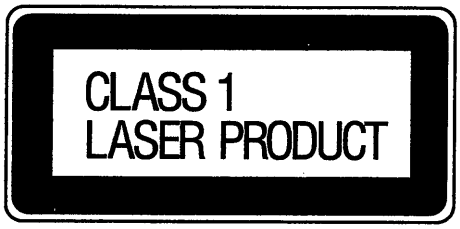
The tuner frequencies on this product are allocated for use in Western Europe, Asia, the Middle East, Africa and Oceania. Use in other areas may result in improper reception. The RDS function operates only in areas with FM stations broadcasting RDS signals.

About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.
We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe the "Precaution" on page 5 and in other sections.

Precaution

- A "CLASS 1 LASER PRODUCT" label is affixed to the bottom of the player.



- The Pioneer CarStereo-Pass is for use only in Germany.
- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.

In Case of Trouble

Should this product fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.

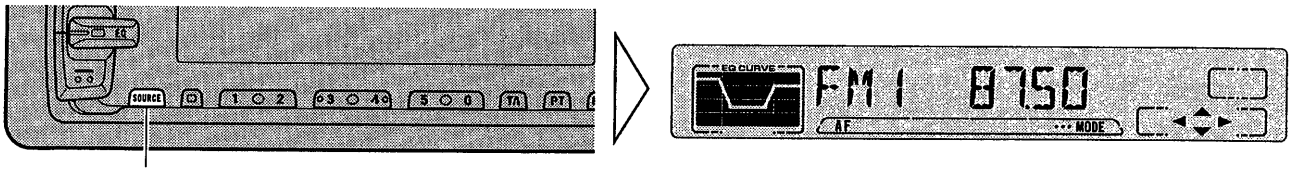
To Listen to Music

The following explains the initial operations required before you can listen to music.

Note:

- Loading a disc in this product. (Refer to page 8.)

1. Select the desired source (e.g. tuner).



Each press changes the Source ...

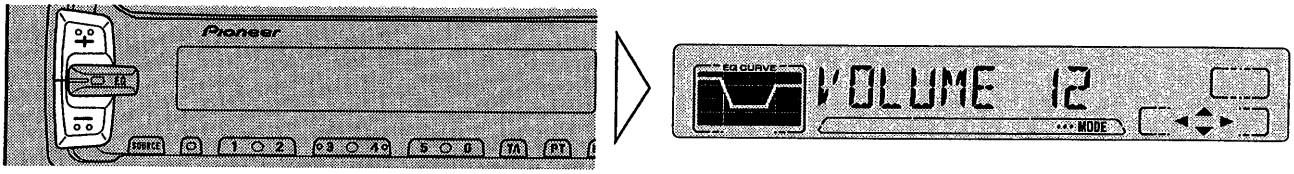
■ Head Unit

Each press of the SOURCE button selects the desired source in the following order:
Built-in CD player → Tuner

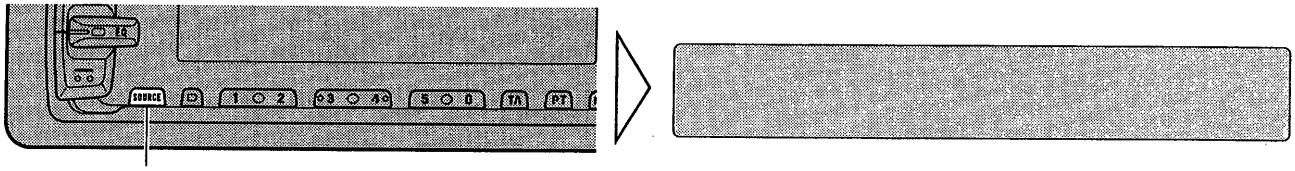
Note:

- The sound source will not change if no disc is set in this product.

2. Raise or lower the volume.



3. Source OFF.



Hold for 1 second or more

Basic Operation of Tuner

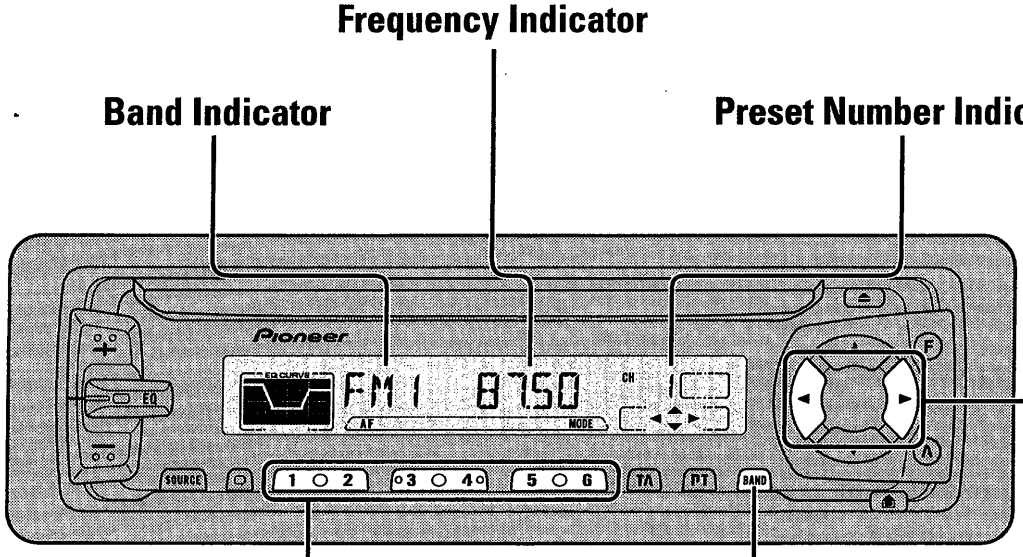
This product's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

Manual and Seek Tuning

- **You can select the tuning method by changing the length of time you press the ◄/► button.**

Manual Tuning (step by step)	0.5 seconds or less
Seek Tuning	0.5 seconds or more

Note:
- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcast stations. Seek Tuning starts as soon as you stop pressing the button.
- "◯" stereo indicator lights when a stereo station is selected.



Preset Tuning

- **You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.**

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

Note:
- Up to 18 FM stations (6 in FM1, FM2 and FM3) and 6 MW/LW stations can be stored in memory.
- You can also use the ▲ or ▼ buttons to recall broadcast stations memorized in buttons 1 through 6.

Band

FM 1 → FM 2 → FM 3 → MW/LW

Basic Operation of Built-in CD Player

Eject

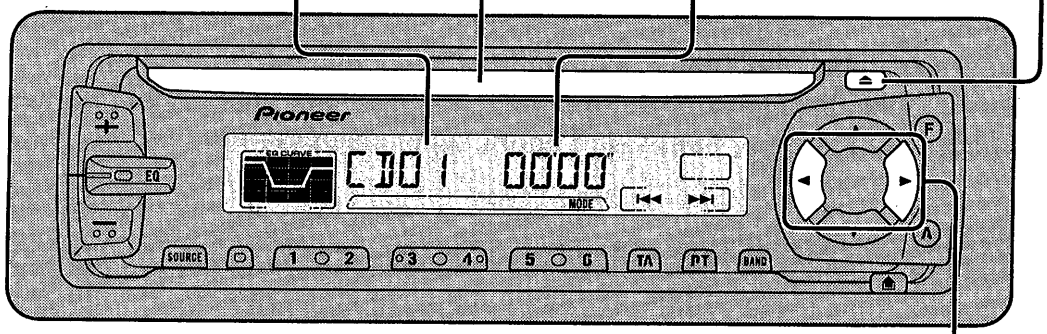
Note:
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 6.)
- Discs left partially inserted after ejection may incur damage or fall out.

Disc Loading Slot

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Track Number Indicator

Elapsed Play Time Indicator



Track Search and Fast Forward/Reverse

- **You can select between Track Search or Fast forward/Reverse by pressing the ◄/► button for a different length of time.**

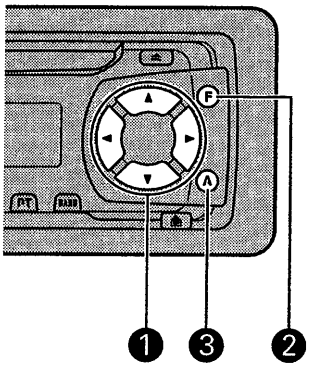
Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Note:
- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the EJECT button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Built-in CD Player's Error Message" on page 31.

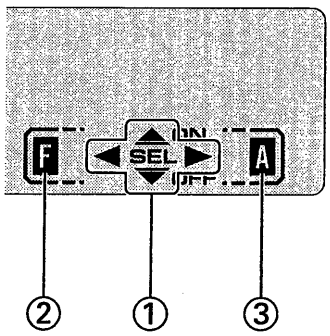
Corresponding Display Indications and Buttons

This product's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◄/►, FUNCTION and AUDIO buttons you can use. When you're in the Function Menu (refer to next section), Initial Setting Menu (refer to page 30) or Audio Menu (refer to page 25), they also make it easy to see which ▲/▼/◄/► buttons you can use to switch functions ON/OFF, switch repeat selections and perform other operations. Indicator and corresponding buttons are shown below.

■ Head Unit



■ Display



When ① is lit in the display, perform appropriate operations with the ❶ buttons.
When ② is lit in the display, it indicates that you are in the Function Menu or Initial Setting Menu. You can switch between each of these menus and between different modes in the menus using button ❷ on the head unit.
When ③ is lit in the display, it indicates you are in the Audio Menu. You can switch between modes in the Audio Menu using button ❸ on the head unit.

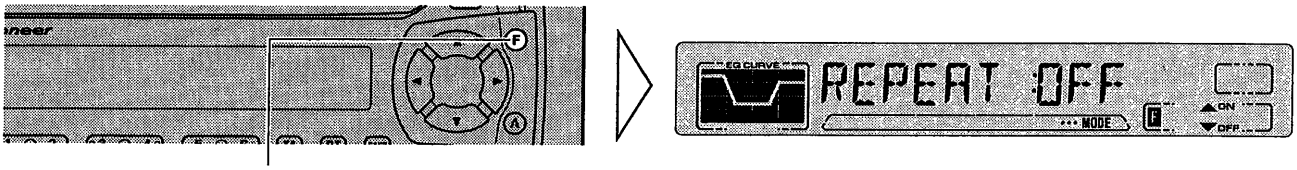
Entering the Function Menu

The Function Menu lets you operate simple functions for each source.

Note:

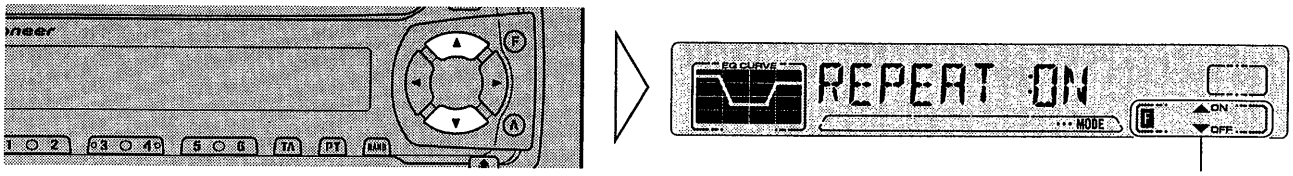
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

1. Select the desired mode in the Function Menu. (Refer to "Function Menu functions".)



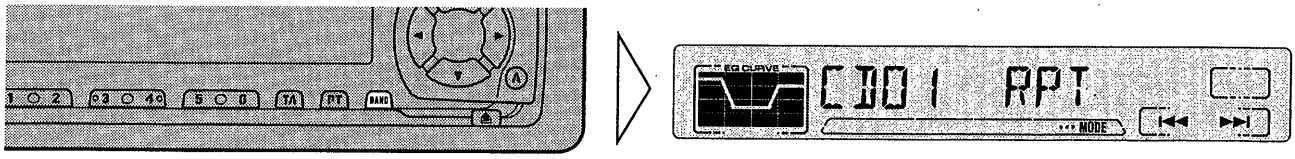
Each press changes the Mode ...

2. Operate a mode. (e.g. Repeat Play)



The button used and the operation it performs are indicated by the key guidance indicator. Press the ▲ button to switch the key guidance indicator ON, and the ▼ button to switch it OFF.

3. Cancel the Function Menu.



Function Menu Functions

The following chart shows functions for each source in the Function Menu.
The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

■ Tuner

Function name (Display)	Button : Operation	Page
Best Stations Memory (BSM)	▲:ON ▼:OFF	12
Regional Function (REG)	▲:ON ▼:OFF	15
Local Seek Tuning (LOCAL)	1 ▲:ON ▼:OFF 2 ◄ or ►:Select (Sensitivity)	12
TA Function (TA)	▲:ON ▼:OFF	16
AF Function (AF)	▲:ON ▼:OFF	14

■ Built-in CD Player

Function name (Display)	Button : Operation	Page
Repeat Play (REPEAT)	▲:ON ▼:OFF	22
Random Play (RANDOM)	▲:ON ▼:OFF	22
Scan Play (T-SCAN)	▲:ON ▼:OFF	23
Pause (PAUSE)	▲:ON ▼:OFF	23

Local Seek Tuning (LOCAL)

When Local mode is ON, you can only select broadcast stations providing strong reception.

1. **Press the FUNCTION button and select the Local mode (LOCAL) in the Function Menu.**

2. **Switch the Local ON/OFF with the ▲/▼ buttons.**

3. **Select the desired Local Seek sensitivity with the ◄/► buttons.**

FM : LOCAL 1 ↔ LOCAL 2 ↔ LOCAL 3 ↔ LOCAL 4
MW/LW: LOCAL 1 ↔ LOCAL 2

Note:

- The LOCAL 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Best Stations Memory (BSM)

The BSM (Best Stations Memory) function stores stations in memory automatically.

1. **Press the FUNCTION button and select the BSM mode (BSM) in the Function Menu.**

2. **Switch the BSM ON with the ▲ button.**

The stations with the strongest signals will be stored under buttons 1–6 and in order of their signal strength.

- **To cancel the process, press the ▼ button in the Function Menu before memorization is complete.**

What is RDS?

RDS (Radio Data System) is a system for transmitting data along with FM programs. This data, which is inaudible, provides a variety of features such as: program service name, program type display, traffic announcement standby, automatic tuning and program type tuning, intended to aid radio listeners in tuning to a desired station.

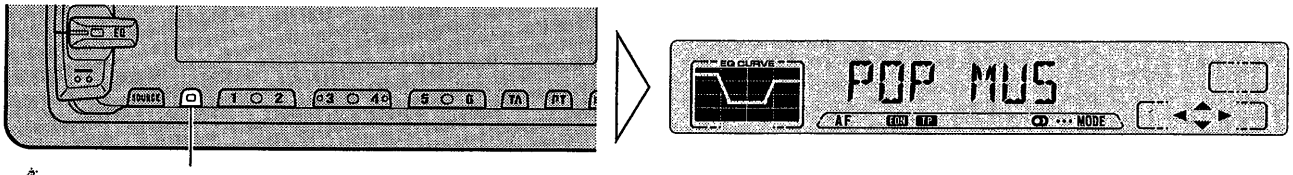
Note:

- RDS service may not be provided by all stations.
- RDS functions, like AF (Alternative Frequencies search) and TA (Traffic Announcement standby), are only active when your radio is tuned to RDS stations.

Program Service Name Display

With this function, the names of networks/stations providing RDS services replace the frequency on the display a few seconds after they are tuned in.

- **When you want to know PTY Information or the frequency of the current station, change the display.**



Each press changes the Display ...

Each press of the DISPLAY button selects the display in the following order:
Program Service Name → PTY Information → Frequency

Note:

- After switching displays, if you do not perform an operation within 8 seconds, the Program Service Name is automatically displayed.

■ Displaying PTY Information

PTY (Program Type ID code) information for the currently tuned station appears on the display for 8 seconds. The information is correlated with the list in the section "PTY List" on page 21.

■ Displaying the Frequency

The frequency of the current station appears on the display.

AF Function (AF)

The AF (Alternative Frequencies search) function is used to search for other frequencies in the same network as the currently tuned station. It automatically retunes the receiver to another frequency in the network which is broadcasting a stronger signal when there are problems with reception of the currently tuned station or better reception is possible on a different frequency.

Note:

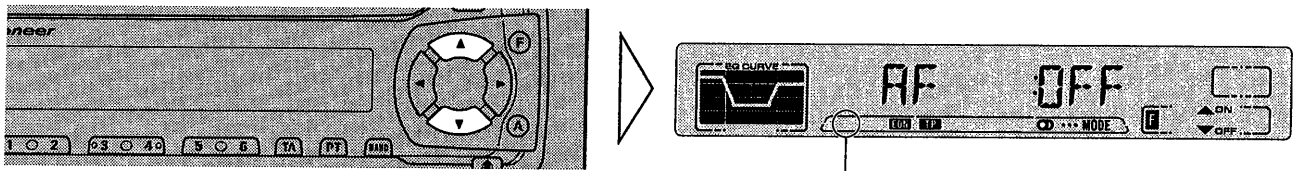
- AF tunes the receiver only to RDS stations when you use Seek tuning or BSM Auto Memory with the "AF" indicator ON.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on the FM1 and FM2 bands.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another program during an AF frequency search.
- When the tuner is tuned to a non-RDS station, the "AF" indicator flashes.
- AF can be switched ON or OFF independently for each FM band.

Activating/Deactivating the AF Function

AF is set to ON by default.

1. **Press the FUNCTION button and select the AF mode (AF) in the Function Menu.**

2. **Activate or deactivate AF while in an FM band.**



"AF" disappears

PI Seek Function

The tuner searches for another frequency broadcasting the same programming. "PI SEEK" appears on the display and the radio volume is muted during a PI Seek. The muting is discontinued after completion of the PI Seek, whether or not the PI seek has succeeded. If the PI Seek is unsuccessful, the tuner returns to the previous frequency.

PI Seek

If the tuner fails to locate a suitable alternative frequency or if the broadcasting signal is too weak for proper reception, the PI Seek will automatically start.

Auto PI Seek (for preset station)

When preset stations cannot be recalled, as when traveling long distances, the product can be set to perform PI Seek also during preset recall.
The default setting for Auto PI Seek is OFF.

Note:

- Refer to "Initial Setting Menu" for details on how to switch Auto PI Seek ON/OFF.

Regional Function (REG)

When AF is used to retune the tuner automatically, REG (Regional) limits the selection to stations broadcasting regional programs.

Note:

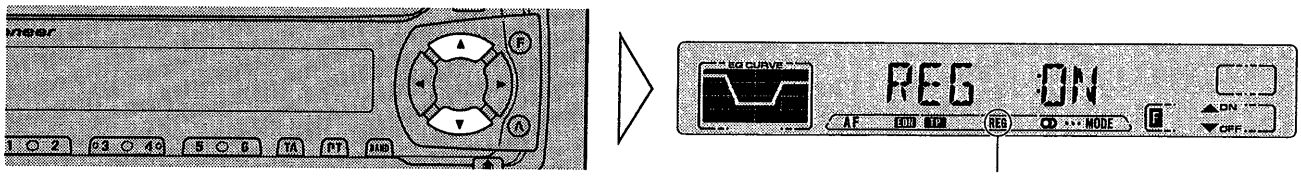
- Regional programming and regional networks are organized differently depending on the country (i.e., they may change according to the hour, state or broadcast area).
- The preset number may disappear on the display if the tuner tunes in a regional station which differs from the originally set station.

Activating REG

The REG function can be turned ON independently for each FM band.

1. **Press the FUNCTION button and select the REG mode (REG) in the Function Menu.**

2. **Activate or deactivate REG while in an FM band.**



TA Function (TA)

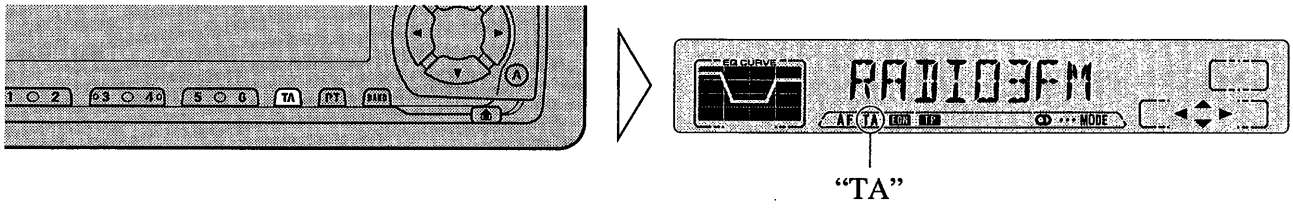
The TA (Traffic Announcement standby) function lets you receive traffic announcements automatically, no matter what source (tuner, built-in CD player) you are listening to. The TA function can be activated for either a TP station (a station that broadcasts traffic information) or an EON TP station (a station carrying information which cross-references TP stations).

Activating/Deactivating the TA Function

1. Tune in a TP or EON TP station.

The "TP" indicator lights when the tuner is tuned to a TP station, and both the "EON" and "TP" indicators light when it is tuned to an EON TP station.

2. Activate the TA function.



The "TA" indicator lights, indicating that the tuner is waiting for traffic announcements.

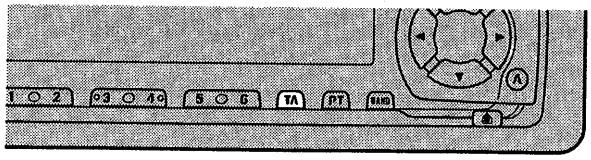
Repeat the preceding operation when no traffic announcement is being received to deactivate the TA function.

Note:

- You can also switch the TA Function ON/OFF in the Function Menu.
- The system switches back to the original source following traffic announcement reception.
- The TA function can be activated from the built-in CD player mode if the tuner was last set to the FM band but not if it was last set to the MW/LW band.
- If the tuner was last set to FM, turning on the TA function lets you operate other tuning functions while listening to a CD.
- Only TP or EON-TP stations are tuned in during the Seek Tuning mode when the "TA" indicator is ON.
- Only TP or EON-TP stations are stored by BSM when the "TA" indicator is ON.

Canceling Traffic Announcements

- **Press the TA/NEWS button while a traffic announcement is being received to cancel the announcement and return to the original source.**

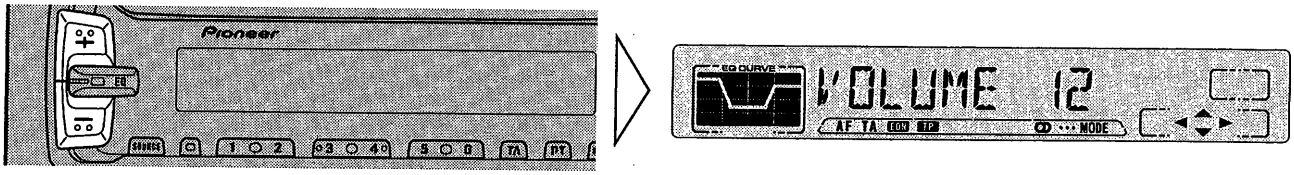


The announcement is canceled but the tuner remains in the TA mode until the TA/NEWS button is pressed again.

Adjusting the TA Volume

When a traffic announcement begins, the volume adjusts automatically to a preset level to enable you to hear the announcement clearly.

- **Set the volume by adjusting it during reception of a traffic announcement.**



The newly set volume is stored in memory and recalled for subsequent traffic announcements.

TP Alarm Function

About 30 seconds after the "TP" or "EON" indicator is extinguished due to a weak signal, a 5 second beep sounds to remind you to select another TP or EON-TP station.

- **If you are listening to the tuner, tune in another TP station or EON-TP station.**

In the built-in CD player mode, the tuner automatically seeks out the TP station with the strongest signal in the current area 10 (or 30)* seconds after "TP" disappears from the display.

*** Time taken before Seek begins.**

TA function ON	10 seconds
TA, AF functions ON	30 seconds

PTY Function

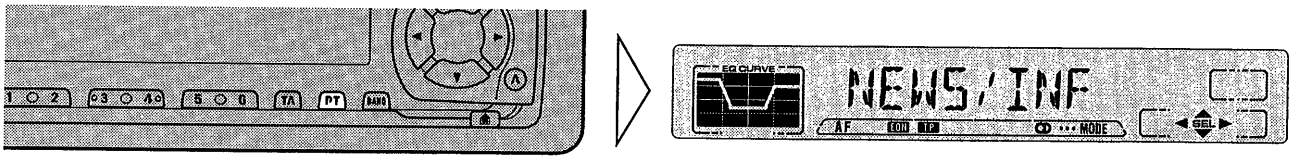
With Wide and Narrow classification of program type, the PTY function provides two ways to select stations by the type of program being broadcast (PTY Search). It also provides automatic tuning to emergency broadcasts (PTY Alarm).

Note:

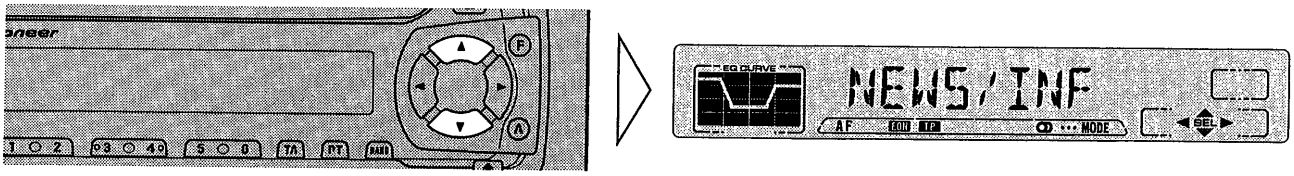
- There's no need to perform PTY Search settings again if they have previously been set. After switching to the PTY Search Setting mode in Step 1, just perform PTY Search in Step 4.

Searching the PTY

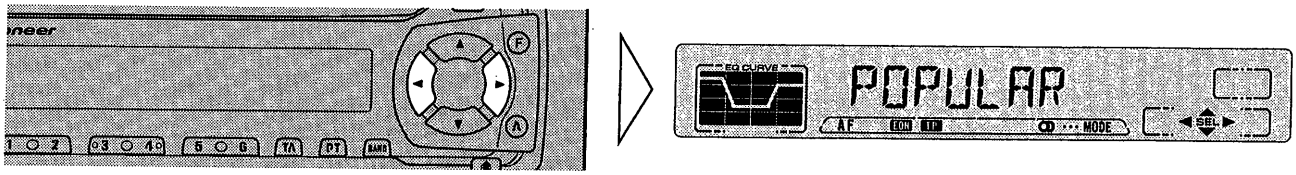
1. Select the PTY Search Setting mode.



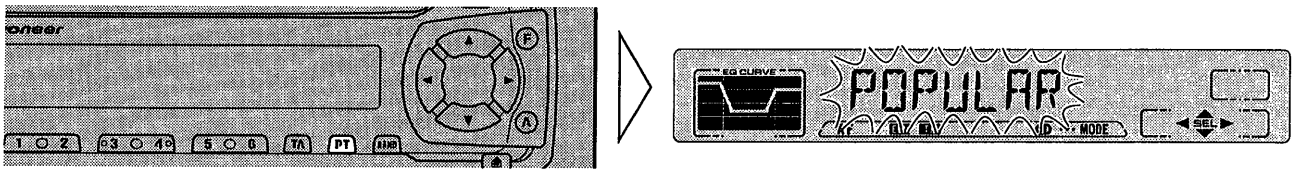
2. Select the PTY Search method (Wide, Narrow).



3. Select one from among the PTY.



4. Start PTY Search.



The tuner searches for a station broadcasting the desired PTY.
To cancel the PTY Search Setting mode, hold down the PTY button for 2 seconds or more.

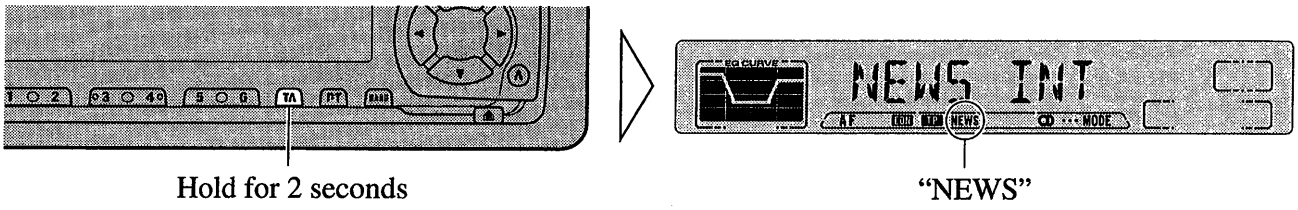
Note:

- If a PTY code of zero is received from a station, "NONE" will be displayed. This indicates that the station has not defined its program contents.
- The program of some stations may differ from that indicated by the transmitted PTY.
- If no station broadcasting the selected programming type is found, "NOT FOUND" is displayed for about 2 seconds, and the tuner returns to the original station.

News Program Interruption Setting

You can switch automatic reception of PTY code news programs ON/OFF. When a received news program ends, reception of the previous program resumes.

- **Set interruption to ON or OFF.**



Hold for 2 seconds

"NEWS"

PTY Alarm

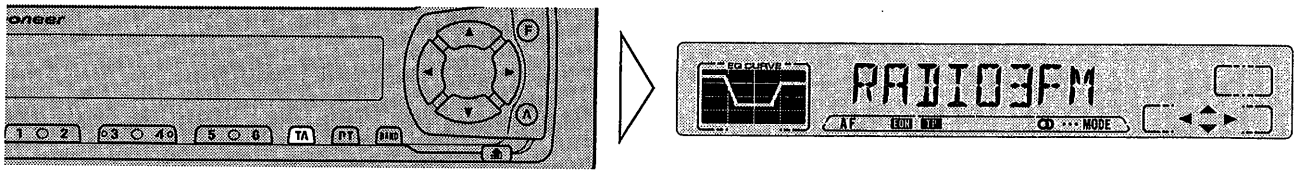
PTY Alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, "ALARM" appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

Note:

- The system switches back to the original source following emergency announcement reception.

Canceling Emergency Announcements

- **Press the TA/NEWS button during emergency announcement reception to cancel the announcement and return to the previous source.**



PTY List

Wide	Narrow	Details
NEWS/INF	NEWS	News.
	AFFAIRS	Current affairs.
	INFO	General information and advice.
	SPORT	Sports programs.
	WEATHER	Weather reports/Meteorological information.
	FINANCE	Stock market reports, commerce, trading etc.
POPULAR	POP MUS	Popular music.
	ROCK MUS	Contemporary modern music.
	EASY MUS	Easy listening music.
	OTH MUS	Other types of music, which can't be categorized.
	JAZZ	Jazz music based programs.
	COUNTRY	Country music based programs.
	NAT MUS	National music based programs.
	OLDIES	Oldies music, 'Golden age' based programs.
	FOLK MUS	Folk music based programs.
CLASSICS	L. CLASS	Light classical music.
	CLASSIC	Serious classical music.
OTHERS	EDUCATE	Educational programs.
	DRAMA	All radio plays and serials.
	CULTURE	Programs concerned with any aspect of national or regional culture.
	SCIENCE	Programs about nature, science and technology.
	VARIED	Light entertainment programs.
	CHILDREN	Children's programs.
	SOCIAL	Social affairs programs.
	RELIGION	Religion affairs programs or services.
	PHONE IN	Phone in based programs.
	TOURING	Travel programs, not for announcements about traffic problem.
	LEISURE	Programs about hobbies and recreational activities.
	DOCUMENT	Documentary programs.

Repeat Play (REPEAT)

Repeat Play plays the same track repeatedly.

1. **Press the FUNCTION button and select the Repeat mode (REPEAT) in the Function Menu.**

2. **Switch Repeat Play ON/OFF with the ▲/▼ buttons.**

Note:

- If you perform Track Search or Fast forward/Reverse, Repeat Play is automatically canceled.

Random Play (RANDOM)

Random Play plays the tracks on a CD in random order for variety.

1. **Press the FUNCTION button and select the Random mode (RANDOM) in the Function Menu.**

2. **Switch Random Play ON/OFF with the ▲/▼ buttons.**

Scan Play (T-SCAN)

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. **Press the FUNCTION button and select the Scan mode (T-SCAN) in the Function Menu.**

2. **Switch the Scan mode ON with the ▲ button.**

3. **When you find the desired track, cancel scan play with the ▼ button.**

   If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

Note:

- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

Pause (PAUSE)

Let's you pause play of the track currently playing.

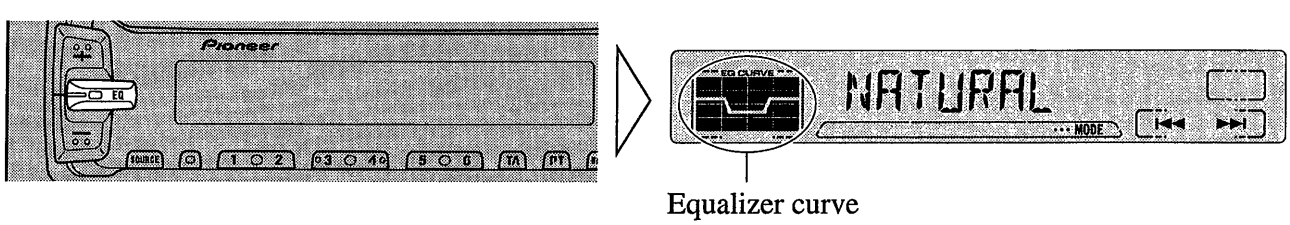
1. **Press the FUNCTION button and select the Pause mode (PAUSE) in the Function Menu.**

2. **Switch the Pause ON/OFF with the ▲/▼ buttons.**

Selecting the Equalizer Curve

You can switch between Equalizer curves.

- **Move the EQ button up or down to select the desired Equalizer curve.**



Equalizer curve

POWERFUL ↔ NATURAL ↔ VOCAL ↔ CUSTOM ↔ EQ FLAT ↔ SUPER BASS

Note:

- "CUSTOM" stores an equalizer curve you have made adjustments to. (Refer to "Equalizer Curve Adjustment" on page 25.)
- You can create different "CUSTOM" curves for different sources.

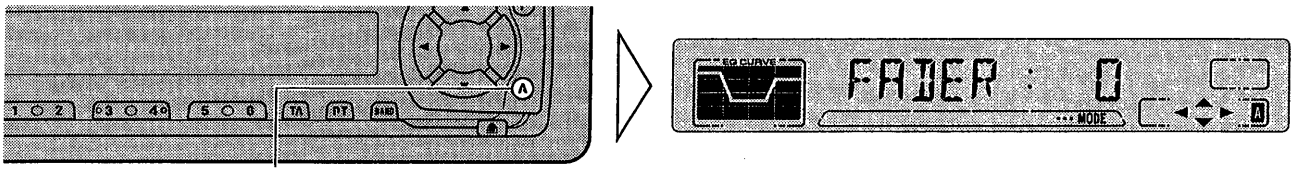
Entering the Audio Menu

With this Menu, you can adjust the sound quality.

Note:

- After entering the Audio Menu, if you do not perform an operation within about 30 seconds, the Audio Menu is automatically canceled.

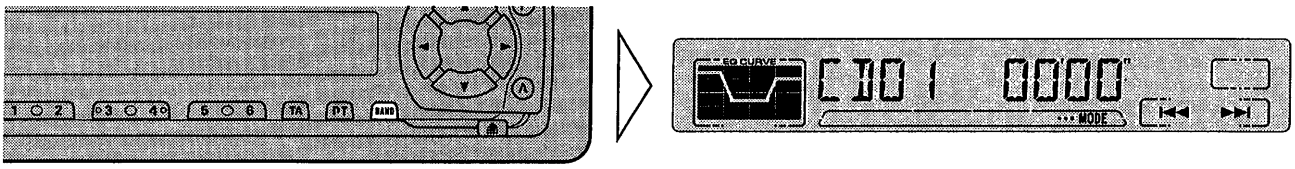
1. Select the desired mode in the Audio Menu.



Each press changes the Mode ...

2. Operate a mode.

3. Cancel the Audio Menu.



Audio Menu Functions

The Audio Menu features the following functions.

Balance Adjustment (FADER)

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. **Press the AUDIO button and select Fader/Balance mode (FADER) in the Audio Menu.**

2. **Adjust front/rear speaker balance with the ▲/▼ buttons.**
   "FADER F15" – "FADER R15" is displayed as it moves from front to rear.

3. **Adjust left/right speaker balance with the ◄/► buttons.**
   "BAL L 9" – "BAL R 9" is displayed as it moves from left to right.

Note:
- "FADER 0" is the proper setting when 2 speakers are in use.

Equalizer Curve Adjustment (EQ-LOW/MID/HIGH)

You can adjust equalizer curve settings as desired. Adjusted equalizer curve settings are memorized in "CUSTOM".

1. **Press the AUDIO button and select the Equalizer mode (EQ-LOW/MID/HIGH) in the Audio Menu.**

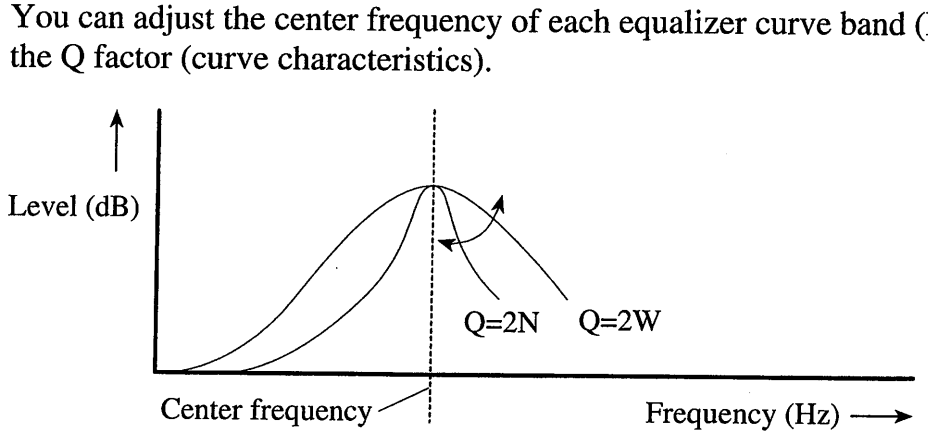
2. **Select the band you want to adjust with the ◄/► buttons.**
   EQ-LOW ↔ EQ-MID ↔ EQ-HIGH

3. **Boost or attenuate the selected band with the ▲/▼ buttons.**
   The display shows "+6" – "–6".

Note:
- If you make adjustments when a curve other than "CUSTOM" is selected, the adjusted curve is stored in memory as a "CUSTOM" curve. Also, the displayed curve switches to that selected before adjustments were made.

Equalizer Curve Fine Adjustment

You can adjust the center frequency of each equalizer curve band (LOW/MID/HIGH) and the Q factor (curve characteristics).



1. **Press the AUDIO button for 2 or more seconds to select Equalizer Curve Fine Adjustment.**

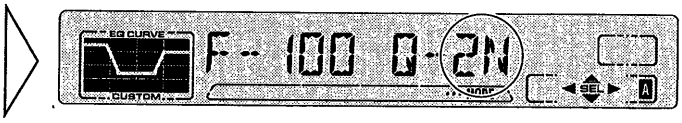
2. **Press the AUDIO button to select the desired band for adjustment.**

3. **Select the desired frequency with the ◄/► buttons.**

LOW: 40 ↔ 80 ↔ 100 ↔ 160 (Hz)
MID: 200 ↔ 500 ↔ 1K ↔ 2K (Hz)
HIGH: 3K ↔ 8K ↔ 10K ↔ 12K (Hz)

4. **Select the desired Q factor with the ▲/▼ buttons.**

2N ↔ 1N ↔ 1W ↔ 2W

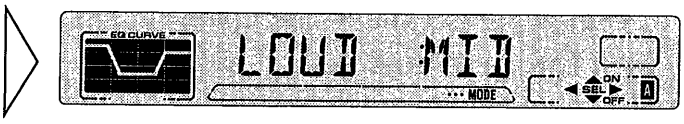


Loudness Adjustment (LOUD)

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume. You can select a desired Loudness level.

1. **Press the AUDIO button and select the Loudness mode (LOUD) in the Audio Menu.**

2. **Switch the Loudness function ON/OFF with the ▲/▼ buttons.**



3. **Select the desired level with the ◄/► buttons.**

LOW ↔ MID ↔ HI

Front Image Enhancer Function (FIE)

The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.

Precaution:
- When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1. **Press the AUDIO button and select the F.I.E. mode (FIE) in the Audio Menu.**

2. **Switch the F.I.E. function ON/OFF with the ▲/▼ buttons.**

3. **Select the desired frequency with the ◄/► buttons.**
   100 ↔ 160 ↔ 250 (Hz)

Note:
- After switching the F.I.E. function ON, select the Fader/Balance mode in the Audio Menu, and adjust front and rear speaker volume levels until they are balanced.
- Switch the F.I.E. function OFF when using a 2-speaker system.

Source Level Adjustment (SLA)

The SLA (Source Level Ajustment) function prevents radical leaps in volume when switching between sources. Settings are based on the FM volume, which remains unchanged. (Since the FM volume is the control, SLA is not possible in the FM modes.) The MW/LW and CD levels can all be adjusted.

1. **Compare the FM volume with the volume of the other source. (e.g. Built-in CD player)**

2. **Press the AUDIO button, and select the SLA mode (SLA) in the Audio Menu.**

3. **Increase or decrease the level with the ▲/▼ buttons.**
   The display shows "+4" – "–4".

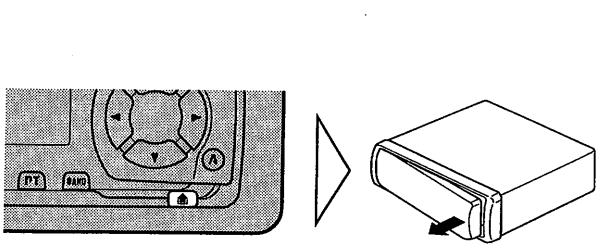
Detaching and Replacing the Front Panel

Theft Protection

The front panel of the head unit is detachable to discourage theft.

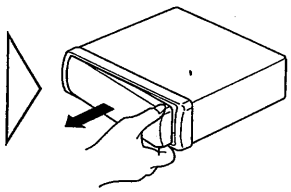
Detaching the Front Panel

1. **Eject the front panel.**

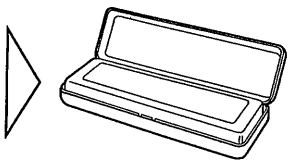


2. **To remove the front panel, pull its right-hand side toward you.**

   Take care not to grip it tightly or drop it.

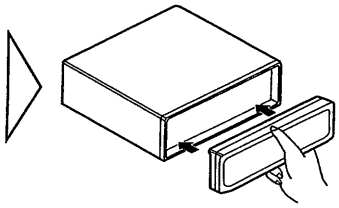


3. **Use the protective case provided to store/carry the detached front panel.**



Replacing the Front Panel

- **Replace the front panel by clipping it into place.**



Precaution:

- Never use force or grip the display tightly when removing or replacing the front panel.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Warning Tone

If the front panel is not detached within 5 seconds after the ignition is turned off, a warning tone will sound.

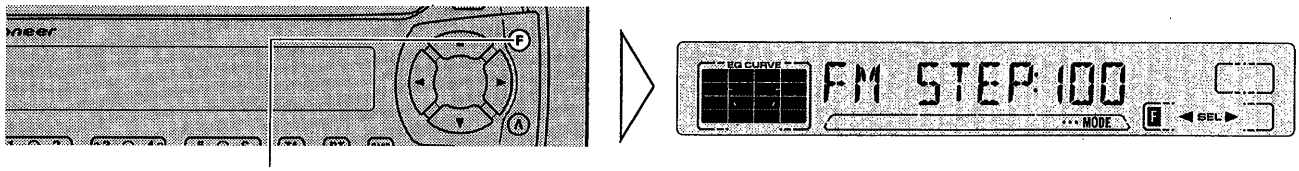
Note:

- You can cancel the warning tone function. (Refer to page 30.)

Entering the Initial Setting Menu

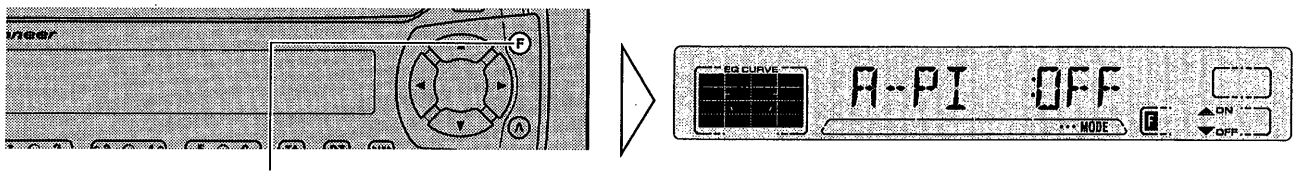
With this Menu, you can perform initial settings for the product.

1. **Switch the sources OFF.**
2. **Enter the Initial Setting Menu with the sources OFF.**



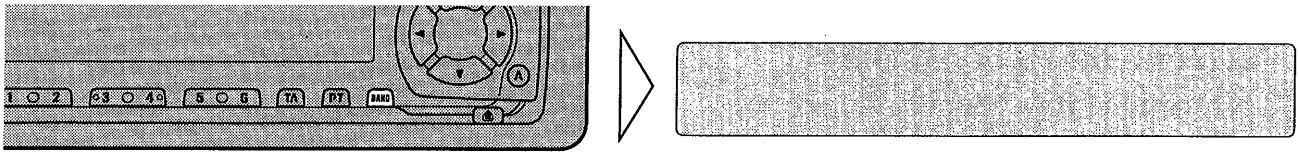
Hold for 2 seconds

3. **Select the desired mode.**



Each press changes the Mode ...

4. **Operate a mode.**
5. **Cancel the Initial Setting Menu.**



Note:

- Holding down the FUNCTION button for 2 seconds also cancels the Initial Setting Menu.

Initial Setting Menu Functions

The Initial Setting Menu features the following functions.

Changing the FM Tuning Step (FM STEP)

Normally set at 50 kHz during Seek tuning in the FM mode, the tuning step changes to 100 kHz when the AF or TA mode is activated.
It may be preferable to set tuning step to 50 kHz in the AF mode.

1. **Press the FUNCTION button and select the FM Tuning Step mode (FM STEP) in the Initial Setting Menu.**

2. **Select the desired tuning step with the ◄/► buttons.**

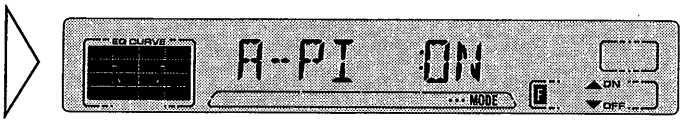
Note:
- The tuning step remains set at 50 kHz during Manual tuning.
- The tuning step returns to 100 kHz if the battery is temporarily disconnected.

Switching the Auto PI Seek (A-PI)

During Preset Station PI Seek operation, you can switch the Auto PI Seek function ON/OFF. (Refer to "PI Seek Function" on page 15.)

1. **Press the FUNCTION button and select the Auto PI Seek mode (A-PI) in the Initial Setting Menu.**

2. **Switch the Auto PI Seek ON/OFF with the ▲/▼ buttons.**



Setting the Warning Tone (WARN)

You can switch the Warning Tone function ON/OFF. (Refer to "Warning Tone" on page 28.)

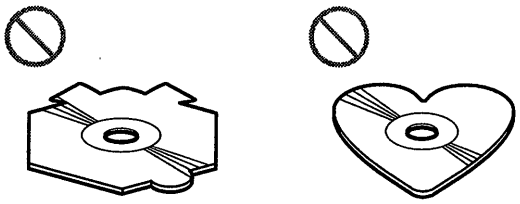
1. **Press the FUNCTION button and select the Warning mode (WARN) in the Initial Setting Menu.**

2. **Switch the Warning tone ON/OFF with the ▲/▼ buttons.**

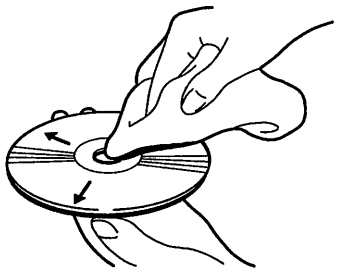
Precaution

- Play only CDs bearing the Compact Disc Digital Audio mark.

- This product is designed for use with conventional, fully circular CDs only. Use of shaped CDs are not recommended for this product.



- Check all CDs before playing and discard cracked, scratched or warped discs.
- Wipe dirty or damp discs outward from the center with a soft cloth.



- Avoid touching the recorded (iridescent) surface when handling discs.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and high temperatures.
- Do not affix labels or apply chemicals to discs.
- Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
- Road shocks may interrupt CD playback.

Built-in CD Player's Error Message

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message	Possible cause	Recommended action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean the disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ERROR- 14	Unrecorded CD.	Check the disc.
ERROR- 10, 11,12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

Specifications

General

Power source ..... 14.4 V DC (10.8 – 15.1 V allowable)
Grounding system ..... Negative type
Max. current consumption ..... 10.0 A
Dimensions
(mounting size) ..... 178 (W) × 50 (H) × 159 (D) mm
(front face) ..... 188 (W) × 58 (H) × 22 (D) mm
Weight ..... 1.4 kg

Amplifier

Maximum power output ..... 45 W × 4
Continuous power output ..... 27 W × 4
(DIN45324, +B = 14.4 V)
Load impedance ..... 4 Ω (4 – 8 Ω allowable)
Preout maximum output level/
output impedance ..... 2.2 V/1 kΩ
Equalizer (3-Band Parametric Equalizer)
(Low) ..... Frequency: 40/80/100/160 Hz
Q Factor: 0.35/0.59/0.95/1.15
(+6 dB when boosted)
Level: ±12 dB
(Mid) ..... Frequency: 200/500/1k/2k Hz
Q Factor: 0.35/0.59/0.95/1.15
(+6 dB when boosted)
Level: ±12 dB
(High) ..... Frequency: 3.15k/8k/10k/12.5k Hz
Q Factor: 0.35/0.59/0.95/1.15
(+6 dB when boosted)
Level: ±12 dB
Loudness contour
(Low) ..... +3.5 dB (100 Hz), +3 dB (10 kHz)
(Mid) ..... +10 dB (100 Hz), +6.5 dB (10 kHz)
(High) ..... +11 dB (100 Hz), +11 dB (10 kHz)
(volume: –30 dB)

CD player

System ..... Compact disc audio system
Usable discs ..... Compact disc
Signal format ..... Sampling frequency: 44.1 kHz
Number of quantization bits: 16; linear
Frequency characteristics ..... 5 – 20,000 Hz (±1 dB)
Signal-to-noise ratio ..... 94 dB (1 kHz) (IEC-A network)
Dynamic range ..... 92 dB (1 kHz)
Number of channels ..... 2 (stereo)

FM tuner

Frequency range ..... 87.5 – 108 MHz
Usable sensitivity
..... 11 dBf (1.0 µV/75 Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity .... 16 dBf (1.7 µV/75 Ω, mono)
Signal-to-noise ratio ..... 70 dB (IEC-A network)
Distortion ..... 0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response ..... 30 – 15,000 Hz (±3 dB)
Stereo separation ..... 40 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range ..... 531 – 1,602 kHz
Usable sensitivity ..... 18 µV (S/N: 20 dB)
Selectivity ..... 50 dB (±9 kHz)

LW tuner

Frequency range ..... 153 – 281 kHz
Usable sensitivity ..... 30 µV (S/N: 20 dB)
Selectivity ..... 50 dB (±9 kHz)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.